CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.15/KMR/CSR-11/1002k/CEMENT/2015-16 Date: 27.11.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, T. Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. K. Madava Reddy,** No.900, Bagalagunte, Muneshwara Layout, Bangalore.
*NAME OF THE WORK	:	Improvements & Construction of cc road & drain at Krishne Gowda Layout Raghavendra Nursing home back side 1st, 2nd & 3rd cross road in Dasarahalli Ward No.15, BBMP, Bangalore.
*REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 24.11.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	24.11.2015
PERIOD OF TESTING	:	24.11.2015 to 27.11.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH. I.A.
Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.15/KMR/CSR-11/1002k/SAND-Gradation/2015-16 : 27.11.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Madava Reddy,**
No.900, Bagalagunte, Muneshwara Layout, Bangalore.

*** Name of Work** : Improvements & Construction of cc road & drain at Krishne Gowda Layout Raghavendra Nursing home back side 1st, 2nd & 3rd cross road in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 24.11.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 24.11.2015

Date of Testing : 27.11.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.20	90-100	90-100	90-100	95-100
2.36	75.70	60-95	75-100	85-100	95-100
1.18	57.70	30-70	55-90	75-100	90-100
600 Micron	29.70	15-34	35-59	60-79	80-100
300 Micron	14.50	5-20	8-30	12-40	15-50
150 Micron	4.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.15/KMR/CSR-11/1002k/AGG/GR/2015-16 : 27.11.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Madava Reddy,**
No.900, Bagalagunte, Muneshwara Layout, Bangalore.

*** Name of Work** : Improvements & Construction of cc road & drain at Krishne Gowda Layout Raghavendra Nursing home back side 1st, 2nd & 3rd cross road in Dasarahalli Ward No.15, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated. 24.11.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 24.11.2015

Date of Testing : 27.11.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.75	95-100	85-100
20	42.50	30-70	0-20
10	17.35	10-35	0-5
4.75	4.35	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.15/KMR/CSR-11/1002k/AGG/GR/2015-16 : 27.11.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Madava Reddy,**
No.900, Bagalagunte, Muneshwara Layout, Bangalore.

*** Name of Work** : Improvements & Construction of cc road & drain at Krishne Gowda Layout Raghavendra Nursing home back side 1st, 2nd & 3rd cross road in Dasarahalli Ward No.15, BBMP, Bangalore.

*** Reference** : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 24.11.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 24.11.2015

Date of Testing : 27.11.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.40	95-100	85-100
10	32.10	25-55	0-20
4.75	5.30	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.15/KMR/CSR-11/1002k/CC Solid Block/2015-16 : 30.11.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K. Madava Reddy,** No.900, Bagalagunte, Muneshwara Layout, Bangalore.
* Name of the Work	: Improvements & Construction of cc road & drain at Krishne Gowda Layout Raghavendra Nursing home back side 1st, 2nd & 3rd cross road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 24.11.2015
Sample Received on	: 24.11.2015
Date of Testing	: 30.11.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.28	259.3	3.24	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.20	262.1	3.28	
3	Block 3	35.65	263.5	3.29	
4	Block 4	34.25	262.4	3.28	
5	Block 5	35.25	260.8	3.26	
6	Block 6	36.32	259.9	3.25	
7	Block 7	35.26	260.4	3.26	
8	Block 8	34.92	263.4	3.29	

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Job No.: CTCE/BBMP/W.No.15/KMR/CSR-11/1002k/Pre Cast Slab/2015-16 26.12.2015

CEMENT CONCRETE CORE (PRE CAST SLAB) TEST REPORT

* Name of Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Mr. K. Madava Reddy,** No.900, Bagalagunte, Muneshwara Layout, Bangalore.
* Name of work	:	Improvements & Construction of cc road & drain at Krishne Gowda Layout Raghavendra Nursing home back side 1st, 2nd & 3rd cross road in Dasarahalli Ward No.15, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 24.11.2015
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre cast slab
Sample Received on	:	21.12.2015
Date of Testing	:	26.12.2015

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.379	2506.79	1.54	0.955	32.30	16.45	17.77	16.97	21.21
2	50.00	78.00	0.389	2539.95	1.56	0.960	32.50	16.55	17.88	17.16	21.45
3	50.00	79.00	0.399	2572.27	1.58	0.965	33.50	17.06	18.43	17.78	22.23

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Job No.: CTCE/BBMP/W.No.15/KMR/CSR-11/1002k/CUBE/2015-16 11.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Madava Reddy,** No.900, Bagalagunte, Muneshwara Layout, Bangalore.

*** Name of the work** : Improvements & Construction of cc road & drain at Krishne Gowda Layout Raghavendra Nursing home back side 1st, 2nd & 3rd cross road in Dasarahalli Ward No.15, BBMP, Bangalore.

*** Reference** : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 24.11.2015

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 11.01.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.12.2015	11.01.2016	8.139	353.6	15.72
2	14.12.2015	11.01.2016	8.269	368.9	16.40
3	14.12.2015	11.01.2016	8.354	379.6	16.87

* Information is furnished by the Customer/Representative

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